2001

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

REC'D 3 1 OCT 2005

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference	POD EXPERIMENT ACCURATE SECTION OF THE POST TOP A LANCE							
	FOR FURTHER ACTION See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/SE2004/000896	09.06.2004	24.07.2003						
International Patent Classification (IPC) or national classification and IPC								
B23P 15/26								
Applicant								
SWEP International AB et al								
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
3. This report is also accompanied by ANNEXES, comprising:								
a. Sent to the applicant	t and to the Intermedianal Property a total of	1						
	and to the International Bureau) a total of							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which	supersede earlier sheets, but which this Author	rity considers contain an amendment that goes						
Supplementa		ed, as indicated in item 4 of Box No. I and the						
b. (sent to the Internation	onal Bureau only) a total of (indicate type and	number of electronic corrier(e))						
G. Com to the Internation		g and/or tables related thereto, in electronic						
form only, as indicat Administrative Instru	ed in the Supplemental Box Relating to Seque	nce Listing (see Section 802 of the						
4. This report contains indications r	elating to the following items:							
I	of the report							
Box No. II Priority	y							
Box No. III Non-es	stablishment of opinion with regard to novelty,	inventive step and industrial applicability						
Box No. IV Lack o	f unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial								
	ability; citations and explanations supporting son documents cited	uch statement						
<u> </u>	a defects in the international application							
<u> </u>								
Box No. VIII Certain observations on the international application								
Date of submission of the demand	Date of completio	n of this report						
1	,							
17.02.2005	18.10.200	5						
Name and mailing address of the IPEA/S		r						
Patent- och registreringsverket Box 5055								
8-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88		Fredrik Andersson/MP Telephone No. +46 8 782 25 00						

Form PCT/IPEA/409 (cover sheet) (April 2005)

4.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000896

Box	No. I	Basis of the report				
1. With regard to the language, this report is based on:						
	the international application in the language in which it was filed					
	a translation of the international application into which is the language of a translation furnished for the purposes of:					
		international search (Rules 12.3(a) and 23.1(b))				
	publication of the international application (Rule 12.4(a))					
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))				
2.	furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
		the international application as originally filed/furnished				
	\bowtie	the description:				
		pages 1-7 as originally filed/furnished				
		pages* received by this Authority on pages*				
	\triangleright	pages* received by this Authority on the claims:				
		pages 8 as originally filed/furnished pages* as amended (together with any statement) under Article 19				
		nages* 9				
		pages* received by this Authority on received by this Authority on				
	\boxtimes	the drawings:				
	النستة	pages 1-11 as originally filed/furnished				
		pages* received by this Authority on				
		pages* received by this Authority on				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.	4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
*	* If item 4 applies, some or all of those sheets may be marked "superseded."					
Form	Form PCT/IPEA/409 (Roy No. D. (Amil 2005)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000896

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims Claims	1-5	YES NO
Inventive step (IS)	Claims Claims	1-5	YES NO
Industrial applicability (IA)	Claims Claims	1-5	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: GB 2129538 A
D2: US 4099928 A
D3: GB 2048130 A
D4: US 5908070 A

D5: US 2003/0121649 A1

New claims have been filed on 27 April 2005 where old claim 6 has been cancelled.

Claims 1-5

The invention defined in claims 1-5 is not disclosed by any of the cited documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method of manufacturing a plate heat exchanger according to claims 1-5. Therefore, the invention claimed in claims 1-5 is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-5 is novel and is considered to involve an inventive step.

The invention is industrially applicable.

The Swedish Patent Office PCT International Application

PCT/SEZ004/000896 27-04-2005

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5. A method according to claim 1,

c h a r a c t e r i s e d in that the two holes in a pair of walls forming a port hole in a heat exchanger plate are of elliptic shape and angularly displaced (Figs. 16-20).